

PAT-NO: JP362188504A
DOCUMENT-IDENTIFIER: JP 62188504 A
TITLE: PATCH ANTENNA
PUBN-DATE: August 18, 1987

INVENTOR-INFORMATION:

NAME

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ASSIGNEE-INFORMATION:

NAME

MITSUBISHI ELECTRIC CORP

COUNTRY

N/A

APPL-NO: JP61031296

APPL-DATE: February 14, 1986

INT-CL (IPC): H01Q013/18, H01Q007/08

ABSTRACT:

PURPOSE: To resonate the titled antenna at two different frequencies by loading a conductor plate having a part in parallel with and overlapped with an irradiation conductor element and allowing a drive section to connect or disconnect the radiation conductor element and the conductor plate.

CONSTITUTION: The conductor plate 4 is provided in parallel with the radiation conductor element 2 while part of the plate is being overlapped, and a dielectric rod 5 supporting the conductor plate 4 and moving it vertically is

PAT-NO: JP409148838A
DOCUMENT-IDENTIFIER: JP 09148838 A
TITLE: MICRO STRIP ANTENNA
PUBN-DATE: June 6, 1997

INVENTOR-INFORMATION:
NAME
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ASSIGNEE-INFORMATION:
NAME COUNTRY
ITEC KK N/A

APPL-NO: JP07339817
APPL-DATE: November 22, 1995

INT-CL (IPC): H01Q009/26, H01Q013/08

ABSTRACT:

PROBLEM TO BE SOLVED: To realize an antenna which is suitable as the radio base station antenna in a mobile communication system, is simple in constitution and is easy to be manufactured.

SOLUTION: On the surface of a dielectric plate 1 which is thinner than a radiation wave length, an exciting element 2 adhering/forming a metal film in a loop-shaped circuit is provided. At proper space in the forward, backward or the both of the forward and backward sides of the dielectric plate 1, other dielectric plate group 10, etc., are provided in parallel. At this stage,

further, a parasitic exciting element group adhering/forming the metal film in shapes such as a circle, a rectangle or a loop-shaped circuit, etc., is provided on the surface. The relative location of the both parties is selected so that the electromagnetic waves emitted from the exciting element 2 may be affected by the parasitic exciting element 4, and a power feeding line 3 and a matching line are provided. As a result, the directivity, the characteristic impedance and the resonance wavelength that the antenna has become possible to be changed and the design/manufacture becomes easy.

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PAT-NO: JP409139622A
DOCUMENT-IDENTIFIER: JP 09139622 A
TITLE: MICROSTRIP ANTENNA
PUBN-DATE: May 27, 1997

INVENTOR-INFORMATION:
NAME
ITO, SADA0

ASSIGNEE-INFORMATION:
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ITEC KK N/A

APPL-NO: JP07332438
APPL-DATE: November 16, 1995

INT-CL (IPC): H01Q013/08, H01Q003/00 , H01Q007/00

ABSTRACT:

PROBLEM TO BE SOLVED: To facilitate antenna design and to facilitate the miniaturization of antenna by using an inexpensive dielectric board, forming a metal film into a loop-shaped circuit on its surface and attaching that film to provide an exciting element.

SOLUTION: This antenna is provided with a thin dielectric board 1 in comparison with the wavelength of electromagnetic waves to be radiated, exciting element 2, feeder line 3 and metal film element 4 attached/formed on the rear side of the dielectric board 1. Namely, when forming the dielectric

board 1 while using a glass cloth substrate fluororesin
copper spreading board,
for example, the unwanted metal film is removed while using
any method similar
to a printing method, the exciting element 2 and the feeder
line 3 are
attached/ formed on the front side of the dielectric board
1, and metal film
elements 4<SB>1</SB>-4<SB>2</SB> are attached/formed on the
rear side. When
using a simple dielectric board as the dielectric board 1,
the film of copper,
etc., is attached on the front side and rear side by any
means such as
deposition so that the exciting element 2, feeder line 3
and metal film
elements 4<SB>1</SB>-4<SB>5</SB> can be formed.

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